

## ***Subject Index to Volume 111***

Numbers in parentheses in italic type after the volume number are the issue numbers

- No. 1 January-February
- No. 2 March-April
- No. 3 May-June
- No. 4 July-August
- No. 5 September-October
- No. 6 November-December

### **A**

- absolute cryogenic radiometer ..... 325(4)
- absorbed dose ..... 443(6)
- ac magnetic susceptibility ..... 41(1)
- ACR ..... 325(4)
- aerodynamic drag ..... 143(2)
- aerodynamic eccentricity ..... 143(2)
- aerodynamic torque ..... 143(2)
- AFM ..... 187(3)
- air kerma ..... 385(5)
- aircraft ..... 103(2)
- ambiguities in powder indexing ..... 393(5)
- anthrax ..... 205(3)
- argon isotope standards ..... 335(5)
- asphere and free form optics ..... 373(5)
- attenuation correction ..... 435(6)

### **B**

- $\text{Ba}_2\text{RC}_3\text{O}_{7-\delta}$  ( $\text{R}$  = lanthanides) ..... 41(1)
- Bacillus anthracis ..... 205(3)
- bacteria ..... 205(3)
- Bayesian tomography ..... 411(6)
- Beer's Law ..... 411(6)
- betatron ..... 443(6)
- bin packing ..... 103(2)
- biological threat ..... 205(3)
- bioterrorism agent ..... 313(4)
- bivariate splines ..... 57(2)
- blackbody ..... 9(1)
- block distance ..... 89(2)
- block Toeplitz matrix ..... 113(2)

### **C**

- calibration ..... 187(3), 325(4), 401(5), 419(6)
- calibration linearity ..... 361(5)
- capacitated networks ..... 161(2)
- castor bean plant ..... 313(4)
- CD ..... 187(3)
- Chatkalite ..... 393(5)
- CIRMS ..... 443(6)
- classifier performance ..... 361(5)
- CMOS ..... 243(3)
- colorimetry ..... 401(5)
- column generation ..... 161(2)
- combinatorial optimization ..... 161(2)
- computational geometry ..... 79(2)
- conical target ..... 435(6)
- convex polyhedra ..... 127(2)
- correlation structure ..... 227(3)
- curve fitting ..... 57(2)
- cutting planes ..... 161(2)

### **D**

- d-spacings ..... 393(5)
- Delaunay triangulation ..... 57(2), 79(2)
- derivative lattices ..... 393(5)
- detection ..... 205(3)
- differential mobility analysis ..... 257(4)
- diffraction ..... 1(1)
- diffraction limit ..... 219(3)
- dimensional standards ..... 187(3)
- displacement rank ..... 113(2)
- dynamic light scattering ..... 257(4)

## E

- effective emissivity models ..... 9(1)
- Ehrhart polynomials ..... 127(2)
- electrical mobility ..... 257(4)
- electrical substitution radiometers ..... 325(4)
- electron microscopy ..... 429(6)
- electrons ..... 443(6)
- electrospray aerosol generation ..... 257(4)
- errors in variables method ..... 113(2)
- exact integer arithmetic ..... 79(2)

## F

- facet-defining cuts ..... 161(2)
- form-profilometry ..... 373(5)
- free molecular flow theory ..... 143(2)
- free-air ionization chamber ..... 385(5)
- fundamental directions ..... 89(2)

## G

- Gaussian beams ..... 429(6)
- Gauss-Seidel iteration ..... 57(2)
- Gram's relation ..... 127(2)

## H

- HACR ..... 325(4)
- Hassler ..... 31(1)
- heat-pipe blackbody ..... 9(1)
- heuristic ..... 103(2), 161(2)
- high accuracy cryogenic radiometer ..... 325(4)
- high-density microarrays ..... 361(5)
- history ..... 31(1)
- HRTEM ..... 187(3)
- Hsieh-Clough-Tocher elements ..... 57(2)

## I

- image deblurring ..... 113(2)
- incoherence ..... 429(6)
- indexing programs ..... 393(5)
- infeasible interior-point paths ..... 135(2)
- in-situ attenuation ..... 435(6)
- integer programming ..... 103(2), 161(2)
- inter-laboratory study ..... 361(5)
- intercomparison ..... 31(1), 325(4)
- ionizing radiation ..... 443(6)

- irregular data ..... 57(2)
- isotonic regression ..... 121(2)

## K

- K-Ar dating ..... 335(5)
- Kirkpatrick-Baez ..... 219(3)

## L

- latent variables ..... 361(5)
- lattice-plane selective etch ..... 187(3)
- Lavery splines ..... 57(2)
- LBIR ..... 325(4)
- lightpipe radiation thermometer ..... 9(1)
- linear complementarity problems ..... 135(2)
- linear program ..... 89(2), 135(2)
- low Earth orbit ..... 143(2)
- low-voltage ..... 243(3)

## M

- mail sorting ..... 97(2)
- maintenance ..... 103(2)
- MAQC ..... 361(5)
- Mawsonite ..... 393(5)
- maximum likelihood ..... 411(6)
- medium-energy x-rays ..... 385(5)
- MEMS ..... 243(3)
- mesometric facility ..... 97(2)
- metric space ..... 97(2)
- microarray quality control ..... 361(5)
- microhotplate ..... 243(3)
- microscopy ..... 219(3)
- mixed volumes ..... 127(2)
- model ..... 243(3)
- modeling ..... 227(3)
- multilayer mirror ..... 219(3)
- multiple scattering ..... 411(6)

## N

- narrow slits ..... 1(1)
- network planning ..... 161(2)
- network traffic ..... 227(3)
- neutron ..... 419(6)
- NIST ..... 419(6)
- non-oscillatory splines ..... 57(2)

## **O**

- obnoxious facility ..... 97(2)
- one-center location problem ..... 89(2)
- optical calibration metrology ..... 373(5)
- optical power measurement standard ..... 325(4)
- optics ..... 1(*I*)
- optimization ..... 97(2), 103(2), 121(2)
- orthorhombic/tetragonal transformation ..... 41(*I*)
- oxygen ordering ..... 41(*I*)

## **P**

- particle size calibration standards ..... 257(4)
- phase transformation of ..... 41(*I*)
- photometry ..... 401(5)
- photonic band gap ..... 411(6)
- Physical transmission function ..... 411(6)
- point clouds ..... 57(2)
- polar directions ..... 89(2)
- polarization ..... 1(*I*)
- polyhedral distance ..... 89(2)
- potassium-argon dating ..... 335(5)
- powder indexing ..... 393(5)
- power diagram ..... 79(2)
- power Measurement ..... 435(6)
- primary standard ..... 385(5)
- projection ..... 121(2)
- pseudo-vectorial theory ..... 1(*I*)

## **Q**

- quaternary lattice metric singularity ..... 393(5)

## **R**

- rad ..... 443(6)
- radiation force balance ..... 435(6)
- radiation pressure ..... 435(6)
- radiation processing ..... 443(6)
- radiation protection ..... 443(6)
- radiation thermometer ..... 9(*I*)
- radiometry ..... 401(5)
- reference data ..... 443(6)
- reference material ..... 313(4)
- reference materials ..... 205(3)
- reference radiation qualities ..... 385(5)

- regular triangulation ..... 79(2)
- ricin toxin ..... 313(4)
- robustness ..... 79(2)
- ROSPEC ..... 419(6)

## **S**

- scalar theory ..... 1(*I*)
- SCCDRM ..... 187(3)
- scheduling ..... 103(2)
- semidefinite linear complementarity ..... 135(2)
- semidefinite linear programs ..... 135(2)
- shell of revolution ..... 143(2)
- simplex ..... 121(2)
- simulation ..... 227(3)
- single crystal silicon ..... 187(3)
- small circular apertures ..... 1(*I*)
- source ..... 401(5)
- sources of variation ..... 361(5)
- space shuttle external tank ..... 143(2)
- specialized lattices ..... 393(5)
- spectroscopy ..... 419(6)
- spores ..... 205(3)
- statistical dependence ..... 361(5)
- strain effect on phase transition ..... 41(*I*)
- structured total least squares ..... 113(2)
- sub-micron ..... 243(3)
- surface metrology ..... 373(5)
- synchrotron radiation ..... 443(6)
- synthetic incoherence ..... 429(6)

## **T**

- telecommunications networks ..... 161(2)
- temperature ..... 9(*I*)
- thin-film thermocouple ..... 9(*I*)
- Tikhonov regularization ..... 113(2)
- total least squares ..... 113(2)
- traceability ..... 9(*I*)
- transfer function ..... 257(4)
- transition temperature ..... 41(*I*)
- transmission coefficients ..... 1(*I*)
- transmission electron microscope ..... 411(6)
- transmission-thickness relation ..... 411(6)
- transportable pipette systems ..... 335(5)
- transversal characteristic ..... 127(2)
- tunable source ..... 401(5)

**U**

- uncertainty ..... 9(1), 187(3)  
ultrasonic power ..... 435(6)  
ultrasound power ..... 435(6)

**V**

- valuation ..... 127(2)  
Veronoi diagram ..... 79(2)

**W**

- wavelet-based analysis ..... 227(3)

**X**

- x-ray calibration ..... 385(5)  
x-ray optics ..... 219(3)  
x rays ..... 443(6)